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LOGINID:ssptajem1625

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPICI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPLUS and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPICI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRSEARCH reloaded with enhancements
NEWS	23	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	29	JUN 25	CA/CAPLUS and USPAT databases updated with IPC

reclassification data
NEWS 30 JUN 30 AEROSPACE enhanced with more than 1 million U.S.
patent records
NEWS 31 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional
options to display authors and affiliated
organizations
NEWS 32 JUN 30 STN on the Web enhanced with new STN AnaVist
Assistant and BLAST plug-in
NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:40:40 ON 15 JUL 2008

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:40:53 ON 15 JUL 2008

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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 14 JUL 2008 HIGHEST RN 1034013-75-6

DICTIONARY FILE UPDATES: 14 JUL 2008 HIGHEST RN 1034013-75-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10-589,051-1.str



```
chain nodes :
7  9 10 12 13 14 15
ring nodes :
1  2 3  4  5  6
chain bonds :
1-7  2-9 3-10 4-14 5-13 6-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 2-9 3-4 3-10 4-5 4-14 5-6 5-13 6-12 14-15
exact bonds :
1-7
```

G1:Cb,Ak,H

Match level :

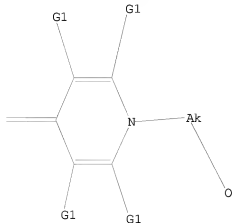
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 10:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Cb,Ak,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 09:41:19 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21961 TO ITERATE

9.1% PROCESSED 2000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 430349 TO 448091

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>

Uploading C:\Program Files\Stnexp\Queries\10-589,051-1a.str



```

chain nodes :
7 9 10 12 13 14
ring nodes :
1 2 3 4 5 6
chain bonds :
1-7 2-9 3-10 4-14 5-13 6-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 2-9 3-4 3-10 4-5 4-14 5-6 5-13 6-12
exact bonds :
1-7

```

G1:Cb,Ak,H

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 10:CLASS
12:CLASS 13:CLASS 14:CLASS

```

L3 STRUCTURE UPLOADED

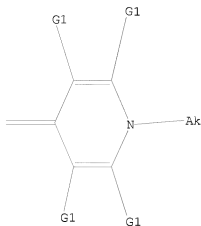
=> d 13

07/29/2008

10-589,051-1.trn

L3 HAS NO ANSWERS

L3 STR



G1 Cb,Ak,H

Structure attributes must be viewed using STN Express query preparation.

=> s l3 sss sam

SAMPLE SEARCH INITIATED 09:42:19 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21961 TO ITERATE

9.1% PROCESSED 2000 ITERATIONS

7 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 430349 TO 448091

PROJECTED ANSWERS: 1011 TO 2063

L4 7 SEA SSS SAM L3

=>

Uploading C:\Program Files\Stnexp\Queries\10-589,051-1b.str



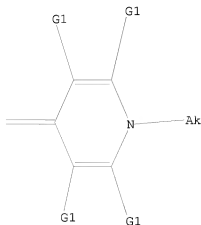
```
chain nodes :
7 9 10 12 13 14
ring nodes :
1 2 3 4 5 6
chain bonds :
1-7 2-9 3-10 4-14 5-13 6-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 2-9 3-4 3-10 4-5 4-14 5-6 5-13 6-12
exact bonds :
1-7
isolated ring systems :
containing 1 :
```

G1:Cb,Ak,H

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 10:CLASS
12:CLASS 13:CLASS 14:CLASS
```

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



G1 Cb,Ak,H

Structure attributes must be viewed using STN Express query preparation.

=> s l5 sss sam
SAMPLE SEARCH INITIATED 09:43:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 21961 TO ITERATE

9.1% PROCESSED 2000 ITERATIONS 7 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 430349 TO 448091
PROJECTED ANSWERS: 1011 TO 2063

L6 7 SEA SSS SAM L5

=>
Uploading C:\Program Files\Stnexp\Queries\10-589,051-1c.str



```

chain nodes :
7 9 10 12 13 14 16 17
ring nodes :
1 2 3 4 5 6
chain bonds :
1-7 2-9 3-10 4-14 5-13 6-12 7-16 7-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 2-9 3-4 3-10 4-5 4-14 5-6 5-13 6-12
exact bonds :
1-7 7-16 7-17
isolated ring systems :
containing 1 :

```

G1:Cb,Ak,H

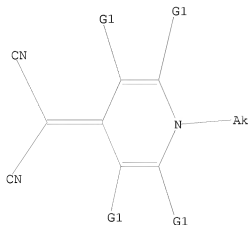
```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 10:CLASS
12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:CLASS

```

L7 STRUCTURE UPLOADED

=> d l7
 L7 HAS NO ANSWERS
 L7 STR



G1 Cb,Ak,H

Structure attributes must be viewed using STN Express query preparation.

=> s l7 sss sam
 SAMPLE SEARCH INITIATED 09:45:33 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 213 TO ITERATE

100.0% PROCESSED 213 ITERATIONS 9 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 3385 TO 5135
 PROJECTED ANSWERS: 9 TO 360

L8 9 SEA SSS SAM L7

=> s l7 sss full
 FULL SEARCH INITIATED 09:45:43 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 4769 TO ITERATE

100.0% PROCESSED 4769 ITERATIONS 149 ANSWERS
 SEARCH TIME: 00.00.01

L9 149 SEA SSS FUL L7

=>
 => file caplus
 COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
 FULL ESTIMATED COST 197.22 197.43

FILE 'CAPLUS' ENTERED AT 10:06:05 ON 15 JUL 2008
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FILE COVERS 1907 - 15 Jul 2008 VOL 149 ISS 3
FILE LAST UPDATED: 14 Jul 2008 (20080714/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 19

L10 32 L9

=> d ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM 32 ANSWERS - CONTINUE? Y/(N):y

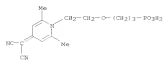
L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS ON SYN (Continued)
 ACCESSION NUMBER: 146125239
 DOCUMENT NUMBER: 2007:171234 CAPLUS
 TITLE: Use of Isotriazolo-4,5-dihydroquinoxaline UV-A sunscreens
 INVENTOR(S): Beng-Schultz, Katja; Hendrick-Bilger, Christine;
 Puschalko, Alexander; Westendorfer, Inert
 PATENT ASSIGNEE(S): DSM IP Assets B.V.; Neth.
 SOURCE: IPC Int. Appl.; 9/09.
 COUNTRY: FR0002
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. DEM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2006/071939	A1	NO 2006-071939	2004/0003	
US, AU, AG, AL, AM, AT, AU, BA, BB, BE, BG, BR, BY, CA, CB, CH, CY, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GR, GM, GU, HK, HU, IL, IN, JP, KR, KZ, MG, MN, MU, MY, NL, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RU, RW, SC, SD, SE, SG, SI, SM, ST, SV, TH, TR, TZ, UA, UG, UY, US, VC, VN, ZA, ZM, ZW				
BR, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, JP, KR, KZ, MG, MN, MU, MY, NL, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RU, RW, SC, SD, SE, SG, SI, SM, ST, SV, TH, TR, TZ, UA, UG, UY, US, VC, VN, ZA, ZM, ZW				
EP 2005-17041	A	2005/0005		

ORIG. SOURCE(S): MUPAT 146125239
 AB The present invention relates to advantageous uses of 1,4-dihydroquinoxaline derivs. and to novel cosmetic or dermatol. sunscreen compns. containing 1,4-dihydroquinoxaline derivs. Thus, 4-(dimethylamino)-2,6-dimethyl-1,4-dihydroquinoxaline-8-ethylhexyloxyphosphate ester monosodium salt) was prepared and formulated as 2A together with 4A (isotriazolo-4,5-dihydroquinoxaline) into an oil/water emulsion.

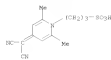
Substances below which absorb in the UV-A and UV-B range.
 101 861406-54-0 861406-55-0 861406-56-0
 861406-02-4P 861406-03-7P 861406-04-0P
 861406-05-3P 861406-06-0P 861406-07-1P
 861406-08-2P 861406-09-3P 861406-10-0P
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L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)



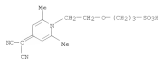
● Na

RI 863406-03-2 CAPLUS
 CH 11487-Pyridinesulfonic acid, 4-(diacyanomethylene)-2,6-dimethyl-1,4H-pyridin-1-yl-, potassium salt (1:1) (CA INDEX NAME)



● K

RI 863406-03-3 CAPLUS
 CH 3-Propanesulfonic acid, 3-[2-[4-(diacyanomethylene)-2,6-dimethyl-1,4H-pyridin-1-yl]ethoxy]-, sodium salt (1:1) (CA INDEX NAME)

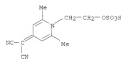


● Na

L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)

CH 1

CHN 863406-55-7
 CMF C12 H23 N3 O4 S

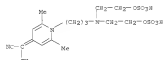


CH 2

CHN 102-71-6
 CMF C6 H15 N O3



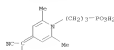
RI 863406-78-4 CAPLUS
 CH Propanedinitrile, 2-[2-[2-bis[2-(sulfoxy)ethyl]amino]propyl]-2,6-dimethyl-4(1H)-pyridinylidene-, sodium salt (1:1) (CA INDEX NAME)



● Na

RI 863406-79-5 CAPLUS
 CH Propanedinitrile, 2-[2,6-dimethyl-1-[2-[2-[2-(sulfoxy)ethoxy]ethoxy]ethyl]-4(1H)-pyridinylidene]-, potassium salt (1:1) (CA INDEX NAME)

L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)
 RI 863406-79-6 CAPLUS
 CH Phosphonic acid, 2-[3-[4-(diacyanomethylene)-2,6-dimethyl-1,4H-pyridin-1-yl]propyl]-, potassium salt (1:1) (CA INDEX NAME)

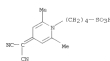


● K

RI 863406-79-8 CAPLUS
 CH 11487-Pyridinesulfonic acid, 4-(diacyanomethylene)-2,6-dimethyl-1,4H-pyridin-1-yl-, compd. with 2,2',2''-nitrotris[ethanol] (1:1) (CA INDEX NAME)

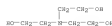
CH 1

CHN 863406-71-7
 CMF C14 H17 N3 O3 S



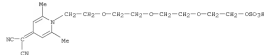
CH 2

CHN 102-71-6
 CMF C6 H15 N O3



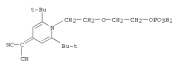
RI 863406-73-9 CAPLUS
 CH Propanedinitrile, [2,6-dimethyl-3-[2-(sulfoxy)ethyl]-4(1H)-pyridinylidene]-, compd. with 2,2',2''-nitrotris[ethanol] (1:1) (CA INDEX NAME)

L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on SYN (Continued)



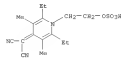
● K

RI 863406-80-8 CAPLUS
 CH Propanedinitrile, 2-[2,6-bis[1,1-dimethylethyl]-3-[2-[2-(phosphooxy)ethoxy]ethyl]-4(1H)-pyridinylidene]-, sodium salt (1:1) (CA INDEX NAME)



● Na

RI 863406-81-9 CAPLUS
 CH Propanedinitrile, 2-[2,6-dimethyl-3-[2-(sulfoxy)ethyl]-4(1H)-pyridinylidene]-, potassium salt (1:1) (CA INDEX NAME)



● K

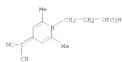
RI 863407-00-3 CAPLUS
 CH Propanedinitrile, 2-[2,6-dimethyl-3-[2-(sulfoxy)ethyl]-4(1H)-pyridinylidene]-, potassium salt (1:1) (CA INDEX NAME)

07/29/2008

10-589,051-1.trn

110 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
pyridinylidene], compd. with 2-amino-2-methyl-1-propanol (1:1) (CA INDEX NAME)

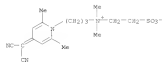
CH 3
CHN 863406-55-7
CHF C12 R13 N3 O4 S



CH 3
CHN 124-08-5
CHF C4 R11 N 0

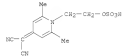


80 863407-01-6 CAPLUS
CH 11481-Pyridinopropanolium,
4-(diacyanomethylene)-N,N',2,6-tetramethyl-8-(2-
sulfoethyl)-, inner salt (CA INDEX NAME)



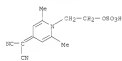
80 863407-03-8 CAPLUS
CH Quasidine,
N-[2-(4-(diacyanomethylene)-2,6-dimethyl-1-(4H)-pyridinyl)ethyl]-

110 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



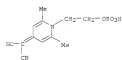
● L1

80 924726-39-5 CAPLUS
CH Propanedinitrile, 2-[2,6-dimethyl-1-[2-(sulfoxyethyl)-4(1H)-
pyridinylidene]-, magnesium salt (2:1) (CA INDEX NAME)



● 1/2 Mg

80 924726-39-6 CAPLUS
CH Propanedinitrile, 2-[2,6-dimethyl-1-[2-(sulfoxyethyl)-4(1H)-
pyridinylidene]-, sodium salt (2:1) (CA INDEX NAME)

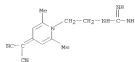


● 1/2 Na

80 924726-40-9 CAPLUS
CH L-aspartic acid, N-[2-(4-(diacyanomethylene)-2,6-dimethyl-1-(4H)-
pyridinyl)propyl]-, sodium salt (1:2) (CA INDEX NAME)

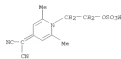
Absolute stereochemistry.

110 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
hydrochloride (1:1) (CA INDEX NAME)



● HCl

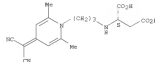
80 924726-36-7 CAPLUS
CH Propanedinitrile, 2-[2,6-dimethyl-1-[2-(sulfoxyethyl)-4(1H)-
pyridinylidene]-, ammonium salt (1:1) (CA INDEX NAME)



● NH3

80 924726-37-4 CAPLUS
CH Propanedinitrile, 2-[2,6-dimethyl-1-[2-(sulfoxyethyl)-4(1H)-
pyridinylidene]-, lithium salt (1:1) (CA INDEX NAME)

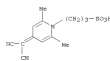
110 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



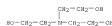
● 2 Na

80 924726-42-1 CAPLUS
CH 11481-Pyridinopropanesulfonic acid, 4-(diacyanomethylene)-2,6-dimethyl-,
compd. with 2,2',2''-nitrotriethanol (1:1) (CA INDEX NAME)

CH 1
CHN 862477-45-6
CHF C13 R15 N2 O3 S



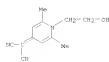
CH 2
CHN 102-71-6
CHF C6 R15 N O3



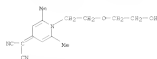
IT 603810-93-39 863406-52-4P 863406-57-9P
863406-59-1P
N/A RCT (Reactant); NRP (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(Preparation and compds. of isonic 1,4-dihydropyridine UV-A sensitizer or
dermatol. anesthetic)

80 924726-39-2 CAPLUS
CH Propanedinitrile,
2-[5-(2-hydroxyethyl)-2,6-dimethyl-4(1H)-pyridinylidene]-
(CA INDEX NAME)

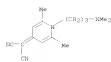
L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



NR 963405-52-4 CAPLUS
 CR Prepaendinitrile, 2-[1-[2-(2-hydroxypropoxy)ethyl]-2,6-dimethyl-4(1H)-pyridinylidene]- (CA INDEX NAME)



NR 963406-57-9 CAPLUS
 CR Prepaendinitrile, 2-[1-[3-(dimethylamino)propyl]-2,6-dimethyl-4(1H)-pyridinylidene]- (CA INDEX NAME)



NR 963406-59-1 CAPLUS
 CR Prepaendinitrile, 2-[1-[2-(2-chloroethoxy)ethyl]-2,6-dimethyl-4(1H)-pyridinylidene]- (CA INDEX NAME)

L10 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 14616556 CAPLUS
 DOCUMENT NUMBER: 14616556
 TITLE: Reaction of pyridinium and quinolinium salts having the leaving group at the 2- or 4-position with active methylene compounds
 AUTHOR(S): Fujita, Tetsu; Hashino, Masato; Tojyo, Yumehiko
 COMPANY SOURCE: Masaki, Rengo, Hiroshi
 SOURCE: Tabaku Pharmaceutical University, 4-4-1 Konatsushina, Maebashi, Saitama City, 381-8558, Japan
 PUBLISHED: Yabuchi, Saeki, (1995), 128 (2), 99-108
 CODEN: YXMAJ 1995: 0931-6903
 JOURNAL: Pharmaceutical Society of Japan
 LANGUAGE: Japanese
 OTHER SOURCE(S): CASREACT 14616556
 QT

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The reactions of 2- or 4-cyano-pyridinium salts (I) and (II) (R = Me, A = isopropyl, R = Et, A = Pr) with active methylene compds. of formula CH2X (X = Y = CO2Me, cyano, CF3, CO2Et, CO2iPr), namely di-tert-butyl malonate, malononitrile, and cyclohexane-1,3-dione, affording 2- or 4-substituted methylene-pyridines (III), (IV), and (V) (R, A, Y = same as above) are described. Similar reactions of 4-cyano-2-methylthiopyridinium iodide (VI) and 4-cyano-2-methylthioquinolinium iodide (VII), both of which have two leaving groups, were readily prepared from 4-cyano-1-methyl-2(1H)-pyridine and 4-cyano-1-methyl-2(1H)-quinoline via 4-cyano-1-methyl-2(1H)-thiopyridine and 4-cyano-1-methyl-2(1H)-thioquinoline in two steps, succeeded at the 2- and/or 4-positions on the pyridine or quinoline rings to give 2- or 4-(substituted methylene)pyridines (VIII) and (IX) and 2-

or 4-(substituted methylene)pyridines (X) and (XI) (R, A, Y = same as above).

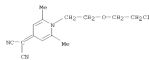
IT 16344-72-2P, 4-(Dicyanomethylene)-1-methyl-1,4-dihydropyridine
 916890-39-2P, 1-Benzyl-4-(dicyanomethylene)-1,4-dihydropyridine
 EN SYN (Synthetic preparation): PREP (Preparation)

(Preparation of methylenedihydropyridine - and dihydropyridine)

DETAILED: By reaction of pyridinium and quinolinium salts having leaving group at the 2- or 4-position with active methylene compds.

NR 16344-72-2 CAPLUS
 CR Prepaendinitrile, 2-[1-methyl-4(1H)-pyridinylidene]- (CA INDEX NAME)

L10 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE AS
 FORMAT

L10 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



NR 916890-39-2 CAPLUS
 CR Prepaendinitrile, 2-[1-(phenylethyl)-4(1H)-pyridinylidene]- (CA INDEX NAME)



L10 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2008 ACS ON SYN (Continued)

ACCESSION NUMBER: 2006:211855 CAPLUS
 DOCUMENT NUMBER: 1451165
 TITLE: Atomistic Molecular Modeling of the Effect of Chromophore Concentration on the Electro-optic Coefficient in Nonlinear Optical Polymers
 AUTHOR(S): Leaky-Wagay, M. R.; Cunningham, P. D.; French, J. A.; Hayden, L. M.
 CORPORATE SOURCE: Department of Physics, University of Maryland, Baltimore, MD 21202, USA
 SOURCE: Journal of Physical Chemistry A (2006), 110(17), 5782-5787
 CSDM: JPCAFZ; ISSN: 1089-5639
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB We employ fully atomistic mol. modeling to investigate the concentration dependence of the electro-optic coefficient of two guest-host polymer composites. Using classical mol. dynamics, we record the time-evolution of the guest-host system under the application of an external electric field.
 Field Through anal. of the orientation of the nonlinear optical chromophores in the guest-host composite with respect to the direction of the external electric field, we calculate the orientational parameter $N \cos^2 \theta$, with N being the number of chromophores in the composite. This parameter is directly proportional to the electro-optic coefficient. We find agreement between the concentration dependence of the electro-optic coefficient calculated through our simulation and that from expl. data and also from Monte Carlo models.
 IT 16144-72-2
 RI: N/A (Refluxer or additive use); PEP (Properties); USE (Uses)
 (atomistic mol. modeling of effect of chromophore concentration on electro-optic coefficient in nonlinear optical polymers)
 RI 16144-72-2 CAPLUS
 CH Prepropanedinitrile, 2-(1-methyl-4(1H)-pyridinylidene)- (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RS

FORMAT

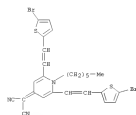
L10 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2008 ACS ON SYN (Continued)

ACCESSION NUMBER: 2006:24507 CAPLUS
 DOCUMENT NUMBER: 14429203
 TITLE: Conjugated alternating copolymers of fluorenes and 2-pyridine-4-ylidenemalononitriles: synthesis, characterization and electroluminescent properties
 AUTHOR(S): Peng, Qiang; Kang, S. T.; Neoh, K. G.; Xiao, Day
 CORPORATE SOURCE: Dechen
 SOURCE: Department of Chemical and Biomolecular Engineering, National University of Singapore, 117570, Singapore
 JOURNAL: JOURNAL OF MATERIALS CHEMISTRY (2006), 16(4), 776-783
 CSDM: JMACFZ; ISSN: 0953-9426
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A new series of light-emitting conjugated copolymers based on fluorenes were synthesized via the Ni-catalyzed Suzuki coupling reaction. The copolymers were characterized by FT-IR, ¹H NMR, and elemental anal. All the copolymers were readily soluble in common organic solvents and had substantially improved thermal properties. Cyclic voltammetry revealed that, with the incorporation of 2-[1,4-bis(2-pyridinyl)pyridine-4-ylidene]malononitrile (BPM) donor-acceptor units in the polyfluorene backbone, these copolymers had low-lying LUMO energy levels ranging from -2.31 to -3.28 eV and raised HOMO energy levels ranging from -5.43 to -5.64 eV. They are thus promising candidates for charge balanced electroluminescence (EL) in light-emitting diodes (LEDs). The copolymer films emit strong orange-red photoluminescence (PL) with maxima at 570-598 nm. Single-layer LEDs with the configuration of ITO/PEB/70%polymer/30%Al were efficient yellow to orange-red emitters, with external quantum efficiencies of 0.43-1.04.
 IT 878554-48-42 878554-51-2P
 RI: PEP (Preparation, unclassified); RCT (Reactant); PEP (Preparation); RCT (Reactant or reagent)
 RI (conjugated alternating copolymers of fluorene and 2-pyridine-4-ylidenemalononitrile: synthesis, characterization and electroluminescent properties)
 RI 878554-48-4 CAPLUS
 CH Prepropanedinitrile, 2-[2,6-bis[2-(4-bromophenyl)ethenyl]-1-henyl-4(1H)-pyridinylidene]- (CA INDEX NAME)

L10 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2008 ACS ON SYN (Continued)

L10 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2008 ACS ON SYN (Continued)

RI 878554-51-8 CAPLUS
 CH Prepropanedinitrile, 2-[2,6-bis[2-(4-bromo-2-thienylethenyl)-1-henyl-4(1H)-pyridinylidene]- (CA INDEX NAME)



IT 878554-42-0P 878554-54-2P 878554-55-2P
 RI: PEP (Properties); SYN (Synthetic preparation); TEN (Technical or unprepared material use); PEP (Preparation); USE (Uses)
 (conjugated alternating copolymers of fluorene and 2-pyridine-4-ylidenemalononitrile: synthesis, characterization and electroluminescent properties)
 RI 878554-52-0 CAPLUS
 CH Prepropanedinitrile, [2,6-bis[2-(4-bromophenyl)ethenyl]-1-henyl-4(1H)-pyridinylidene]-, polymer with 2,7'-[9,9-dihenyl-3a-fluorene-2,7-diyl]bis[1,7,2-dioxaborinane] (PCT) (CA INDEX NAME)
 CH 1
 CHN 878554-48-4

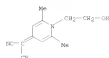
07/29/2008

10-589,051-1.trn

L10 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STM (Continued)
 g, Raj 723 2.0 g, Lanette 0 2.0 g, Katal GM 3450 2.0 g, BHT 0.05 g, and Phospho 0.5 g at 80°, adding a preheated soln. of glycerin 4.0 g and K2H4 80 0.5 g in water 41.85 g, and subsequently 108 at, K2H4 9.1 g as well as Brijel 305 1.0 g. An av. BPF was 6.6, compared to 6.8 of Parafol M35.

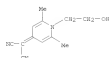
IT 401810-91-10p, reaction products with glycerol-propylene oxide block polymers
 R1a COS (Cosmetic use); STM (Synthetic preparation); R10L (Biological study); FREP (Preparation); USES (Uses)
 (UV absorbing chromophores covalently bonded to hyperbranched polymers for sunscreen)

R1 401810-91-3 CAPLUS
 CN Preparaedinitrile, 2-[1-(4-hydroxyethyl)-2,6-dimethyl-4-(18)-pyridinylidene]-
 (CA INDEX NAME)



IT 401810-91-7p
 R1a NCT (Reactant); STM (Synthetic preparation); FREP (Preparation); RACT (Reactant or reagent)
 (UV absorbing chromophores covalently bonded to hyperbranched polymers for sunscreen)

R1 401810-91-1 CAPLUS
 CN Preparaedinitrile, 2-[1-(4-hydroxyethyl)-2,6-dimethyl-4-(18)-pyridinylidene]-
 (CA INDEX NAME)

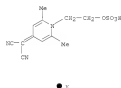


REFERENCE COPY: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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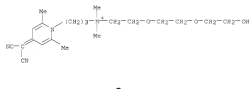
L10 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STM (Continued)

R1a COS (Cosmetic use); STM (Synthetic preparation); R10L (Biological study); USES (Uses)
 (ionic UVA sunscreens and compo. outg. then)

R1 861406-81-7 CAPLUS
 CN Preparaedinitrile, 2-[1,6-dimethyl-1-[2-(4-oxoethyl)-2,6-dimethyl-4-(18)-pyridinylidene]-, potassium salt (1:1) (CA INDEX NAME)



R1 861406-44-5 CAPLUS
 CN 1,48-Pyridinopropanaminium, 4-(dicyanomethylene)-N-[2-[2-(2-hydroxyethoxyethoxy)ethyl]-N,N',N'',N'''-tetramethyl-, chloride (1:1) (CA INDEX NAME)



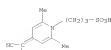
R1 861406-81-9 CAPLUS
 CN 1,148-Pyridinopropanaminium, 4-(dicyanomethylene)-N,N',N'',N'''-pentamethyl-, iodide (1:1) (CA INDEX NAME)



L10 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STM (Continued)
 ACCESSION NUMBER: 2005-EP1379
 DOCUMENT NUMBER: 14125482
 TITLE: Preparation of ionic UVA sunscreens
 INVENTOR(S): Berg-Schmitt, Katja; Huber, Ulrich; Springer, Daniel
 PATENT ASSIGNEE(S): DSM IP Assets B. V., Neth.
 SOURCE: PCT Int. Appl., 52 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	FIRM	DATE	APPLICATION NO.	DATE
WO 2005090341	AL	2005-09-01	WO 2005-EP1379	2005-02-11
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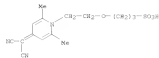
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● K

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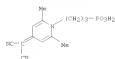
CN 3-propanesulfonic acid, 3-[2-[4-(diacyanomethylene)-2,6-dimethyl-1(4H)-pyridinyl]ethoxy]-, sodium salt (141) (CA INDEX NAME)



● Na

RN 863406-70-6 CAPLUS

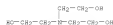
CN 3-benzenesulfonic acid, 3-[2-[4-(diacyanomethylene)-2,6-dimethyl-1(4H)-pyridinyl]ethoxy]-, potassium salt (142) (CA INDEX NAME)



● K

RN 863406-72-8 CAPLUS

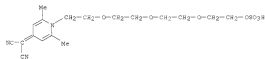
L10 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CN 102-71-6
CMT CE R15 N O3

● Na

RN 863406-79-3 CAPLUS

CN 3-propandinitrile, 2-[2,6-dimethyl-1-[2-[2-[2-(sulfonyl)ethoxy]ethoxy]ethyl]-4(1H)-pyridinylidene]-, potassium salt (143) (CA INDEX NAME)



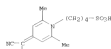
● K

RN 863406-80-8 CAPLUS

CN 3-propandinitrile, 2-[2,6-bis(1,1-dimethylethyl)-1-[2-[2-(sulfonyl)ethoxy]ethoxy]ethyl]-4(1H)-pyridinylidene]-, sodium salt (143) (CA INDEX NAME)

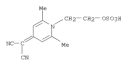
L10 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CN 1(4H)-Pyridinebutanesulfonic acid, 4-(diacyanomethylene)-2,6-dimethyl-, compd. with 2,2',2''-nitrotri[triethanol] (143) (CA INDEX NAME)



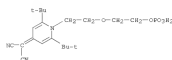
RN 863406-73-3 CAPLUS

CN 3-propandinitrile, [2,6-dimethyl-1-[2-(sulfonyl)ethyl]-4(1H)-pyridinylidene]-, compd. with 2,2',2''-nitrotri[triethanol] (143) (CA INDEX NAME)



CN 2

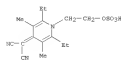
L10 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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RN 863406-81-9 CAPLUS

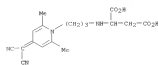
CN 3-propandinitrile, 2-[2,6-diethyl-1-[2-(sulfonyl)ethyl]-4(1H)-pyridinylidene]-, potassium salt (144) (CA INDEX NAME)



● F

RN 863406-82-0 CAPLUS

CN 3-propandinitrile, 2-[2,6-bis(1,1-dimethylethyl)-1-[2-[2-(sulfonyl)ethoxy]ethoxy]ethyl]-4(1H)-pyridinylidene]-, disodium salt (SC1) (CA INDEX NAME)



● Na

RN 863407-00-5 CAPLUS

CN 3-propandinitrile, 2-[2,6-dimethyl-1-[2-(sulfonyl)ethyl]-4(1H)-pyridinylidene]-, compd. with 2-amino-2-methyl-1-propanol (143) (CA INDEX NAME)

07/29/2008

10-589,051-1.trn

110 ANSWER 6 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

110 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 1997:214920 CAPLUS
 DOCUMENT NUMBER: 126:29943
 ORIGINAL REFERENCE NO.: 126:29943, 5788A
 TITLE: Silver halide photographic element containing arylhydrazone
 INVENTOR(S): Delgato, Ivanny Copolonia, Isabella
 PATENT ASSIGNEE(S): Delgato, Ivanny Copolonia, Isabella
 SOURCE: Eur. Pat. Appl., 23 pp.
 CDSN: EP0000
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACT NUM. COUNTRY: 1
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 761771	A1	19970319	EP 1995-114618	19950910
US 7,121, 78, GB, IT			EP 1995-114618	19950910

FOREIGN AFFIL. INFO.:
 PUBLICATION INFO.:
 OTHER SOURCE(S):
 GI: MAURAT 126:29943

AS 10: Ag[CH2]n-N-C6H4-CH=N2
 I

AB The present invention relates to a silver halide photo. element comprising a support bearing at least one silver halide emulsion layer including neg. surface latent image-type silver halide grains in reactive association (prior to exposure) with a hydrazone compound represented by the formula I (A = aryl; n = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 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559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 21

110 ANSWER 14 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
 CRI 634-56-4
 CMI C4 H8 N



IT 108793-76-6 108793-78-8
 RI: PEP (Fragiles)
 (organic conductors, structure and elec. properties of)
 RI 108793-76-6 CAPLOS
 CRI Propagandinitrile, [4-(disyanomethylene)-1(4H)-pyridinyl]-, ion(1-), salt
 with 2-(4,5-dimethyl-1,3-dithiol-2-ylidene)-1,3-dithiane (112) (9CI)
 (CA INDEX NAME)
 CMI 1
 CRI 55259-49-9
 CMI C10 H12 S4



CMI 2
 CRI 108793-75-5
 CMI C11 H4 N5 . C10 H12 S4
 CMI 3
 CRI 84662-81-7
 CMI C11 H4 N5

110 ANSWER 14 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

CMI 3
 CRI 84662-81-7
 CMI C11 H4 N5



CMI 4
 CRI 52597-32-7
 CMI C10 H12 S4
 CCI H2S



110 ANSWER 14 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CMI 4
 CRI 73261-22-0
 CMI C10 H12 S4
 CCI H2S



RI 108793-76-6 CAPLOS
 CRI Propagandinitrile, [4-(disyanomethylene)-1(4H)-pyridinyl]-, ion(1-), salt
 with 2-(4,5-dimethyl-1,3-dithiol-2-ylidene)-4,5-dimethyl-1,3-dithiane
 (112) (9CI) (CA INDEX NAME)

CMI 1
 CRI 50768-37-7
 CMI C10 H12 S4



CMI 2
 CRI 108793-77-7
 CMI C11 H4 N5 . C10 H12 S4

110 ANSWER 15 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 108746074 CAPLOS
 DOCUMENT NUMBER: 10746074
 ORIGINAL REFERENCE NO.: 10742579a,1562a
 TITLES: New organic conductors based on AtaTCNQ
 AUTHOR(S): Urayama, S.; Saito, G.; Inabe, T.; Mori, T.;
 Maruyama, Y.

CORPORATE SOURCE: Inst. Solid State Phys., Univ. Tokyo, Tokyo, 106,
 Japan
 SOURCE: Synthetic Metals 136(7), 1211-33, 469-74
 COMP. SYNTHESIS: ISSN: 0378-4379

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Complexes of AtaTCNQ(4-dicyanomethylene-2,3,5,6-tetracyanoquinodimethane) with
 the TTF family were examined as a new candidate for organic conductors.
 The
 tetramethyltetraazafulvalene complex had high conductivity, and the metallic
 character was confirmed by thermoelectric power and ESR measurements. The
 stoichiometry is 2:1, and the structural study shows that only donor
 moles

form a 1-dimensional stack of conduction, while the AtaTCNQ mol. plane is
 oriented parallel to the donor stack. The orientational disorder of
 AtaTCNQ presumably causes the weak temperature dependence of charge
 transport.

IT 108793-76-6 108793-72-2 108793-74-4

RI 108793-76-6 108793-78-8

RI: PEP (Fragiles)

(elec. conductive)

RI 108793-76-6 CAPLOS

CRI Propagandinitrile, [4-(disyanomethylene)-1(4H)-pyridinyl]-, ion(1-), salt
 with 2-(1,3-dithiol-2-ylidene)-1,3-dithiane (111) (9CI) (CA INDEX NAME)

CMI 1
 CRI 84662-81-7
 CMI C11 H4 N5



CMI 2
 CRI 35079-56-2
 CMI C4 H4 S4

07/29/2008

10-589,051-1.trn

110 ANSWER 15 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
CCL R15

BN 108793-73-2 CAPLOS
CN Propionitrile, [4-(dicyanomethylene)-3-(4H-pyridinyl)-, ion(1-), salt with 2-(4,5-dihydro-4H-cyclopenta-1,2-dithiol-2-ylidene)-5,6-dihydro-4H-pyrimidin-1,3-dithiole (NCL) (CA 30084 NMR)

CN 1
CEN 57522-84-2
CMF C12 R12 S4



CN 2
CEN 108793-71-3
CMF C12 R12 S4 . C11 R4 N5

CN 3
CEN 84662-83-7
CMF C11 R4 N5



CN 4

110 ANSWER 15 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)
CEN 57527-01-2
CMF C12 R12 S4
CCL R15

BN 108793-74-4 CAPLOS
CN Propionitrile, [4-(dicyanomethylene)-3-(4H-pyridinyl)-, ion(1-), salt with 2-(1,3-benzodithiol-2-ylidene)-3,3-benzodithiole (NCL) (CA 30084 NMR)

CN 1
CEN 24648-33-7
CMF C14 R8 S4



CN 2
CEN 108793-73-3
CMF C14 R8 S4 . C11 R4 N5

CN 3
CEN 84662-83-7
CMF C11 R4 N5



110 ANSWER 15 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

CN 4
CEN 35079-60-8
CMF C14 R8 S4
CCL R15



BN 108793-76-6 CAPLOS
CN Propionitrile, [4-(dicyanomethylene)-3-(4H-pyridinyl)-, ion(1-), salt with 2-(4,5-dimethyl-3,3-dithienyl-2-ylidene)-1,3-dithienole (1x2) (NCL) (CA 30084 NMR)

CN 1
CEN 55259-49-9
CMF C10 R12 S4



CN 2
CEN 108793-75-5
CMF C11 R4 N5 . C10 R12 S4
CN 3
CEN 84662-83-7
CMF C11 R4 N5



110 ANSWER 15 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

CN 4
CEN 72261-23-0
CMF C10 R12 S4
CCL R15



BN 108793-78-8 CAPLOS
CN Propionitrile, [4-(dicyanomethylene)-3-(4H-pyridinyl)-, ion(1-), salt with 2-(4,5-dimethyl-3,3-dithienyl-2-ylidene)-4,5-dimethyl-1,3-dithiole (1x2) (NCL) (CA 30084 NMR)

CN 1
CEN 50708-37-7
CMF C10 R12 S4



CN 2
CEN 108793-77-7
CMF C11 R4 N5 . C10 R12 S4
CN 3
CEN 84662-83-7
CMF C11 R4 N5

07/29/2008

10-589,051-1.trn

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CN 2

CNS 694-56-4
CNP CS BS NS

RR 93179-10-3 CAPLUS
CN Pyridinium, 1-ethyl-, salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCT) (CA INDEX NAME)

CN 3

CNS 84662-81-7
CNP C11 B4 B5

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RR 93179-12-5 CAPLUS
CN Pyridinium, 4-cyano-1-ethyl-, salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCT) (CA INDEX NAME)

CN 3

CNS 84662-81-7
CNP C11 B4 B5

CN 2

CNS 48921-66-3
CNP CS BS NS

RR 93179-14-7 CAPLUS
CN Pyrazinium, 1-(dicyanomethylene)-1,4-dihydro-4-methyl-, salt with [4-(dicyanomethylene)-3(4H)-pyridinyl]propanedinitrile (1:1) (PCT) (CA INDEX NAME)

CN 3

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CN 2

CNS 15302-96-2
CNP C7 B10 N

RR 93179-11-4 CAPLUS
CN Pyridinium, 4-cyano-3-methyl-, salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCT) (CA INDEX NAME)

CN 1

CNS 84662-81-7
CNP C11 B4 B5

CN 2

CNS 13443-45-7
CNP C7 B7 B2

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CNS 93179-13-6
CNP CS B7 B4



CN 2

CNS 84662-81-7
CNP C11 B4 B5

RR 93179-15-8 CAPLUS
CN Quinolinium, 1-methyl-, salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCT) (CA INDEX NAME)

CN 1

CNS 84662-81-7
CNP C11 B4 B5

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



CM 2

CNS 21973-19-1
CNP C19 H16 NR9 91179-16-9 CAPLUS
C9 Quinolinium, 1-methyl-, salt with [4-(diisyanomethyl)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

CM 3

CNS 84662-81-7
CNP C13 H4 N5

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

R9 91179-18-1 CAPLUS
C9 Pyrazinium, 5-methyl-, salt with [4-(diisyanomethyl)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

CM 1

CNS 84662-82-7
CNP C12 H4 N5

CM 2

CNS 7430-06-6
CNP C13 H12 N2R9 93179-19-2 CAPLUS
C9 Pyridinium, 1-methyl-, salt with 2,2'-(1,5-cyclohexadiene-1,4-diyldiene)bis[propanedinitrile], compl. with 1-methylpyridinium salt with [4-(diisyanomethyl)-1(4H)-pyridinyl]propanedinitrile (PCI) (CA INDEX NAME)

CM 1

CNS 93179-09-0
CNP C12 H4 N5, OS H9 N

CM 2

CNS 84662-83-7
CNP C13 H4 N5

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

CM 2

CNS 48122-97-0
CNP C13 H12 NR9 93179-17-0 CAPLUS
C9 Aziridinium, 10-methyl-, salt with [4-(diisyanomethyl)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

CM 1

CNS 84662-81-7
CNP C13 H4 N5

CM 2

CNS 13267-82-2
CNP C14 H12 N

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

R9 93179-18-1 CAPLUS
C9 Pyrazinium, 5-methyl-, salt with [4-(diisyanomethyl)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

CM 1

CNS 84662-82-7
CNP C12 H4 N5

CM 2

CNS 7430-06-6
CNP C13 H12 N2

CM 4

CNS 24504-03-9
CNP C12 H4 N4, OS H9 N

CM 5

CNS 34507-82-4
CNP C12 H4 N4
CCT K15

CM 6

CNS 634-56-4
CNP OS H9 N

L10 ANSWER 17 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



RN 93179-20-5 CAPLOS
CN Pyridinium, 1-methyl-, salt with 2,2'-(2,5-cyclohexadiene-1,4-diyldiene)bis[propanedinitrile] (1a1), compd. with 1-ethylpyridinium salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1a2) (PC1) (CA INDEX NAME)
CN 3
CRN 93179-10-3
CMF C11 H4 N5 . C7 H10 N
CN 2
CRN 84662-83-7
CMF C11 H4 N5



CN 3
CRN 15760-96-2
CMF C7 H10 N

L10 ANSWER 17 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 3
CRN 93179-15-8
CMF C11 H4 N5 . C10 H10 N
CN 2
CRN 84662-83-7
CMF C11 H4 N5



CN 3
CRN 23379-19-1
CMF C10 H10 N



CN 4
CRN 34504-25-1
CMF C12 H4 N4 . C10 H10 N
CN 5
CRN 34507-61-4
CMF C12 H4 N4
CCT R18

L10 ANSWER 17 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 4
CRN 52700-69-3
CMF C12 H4 N4 . C7 H10 N
CN 5
CRN 34507-61-4
CMF C12 H4 N4
CCT R18



CN 6
CRN 15760-96-2
CMF C7 H10 N



RN 93179-21-6 CAPLOS
CN Quinolinium, 1-methyl-, salt with 2,2'-(2,5-cyclohexadiene-1,4-diyldiene)bis[propanedinitrile], compd. with 1-methylquinolinium salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (PC1) (CA INDEX NAME)

L10 ANSWER 17 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 6
CRN 23379-19-1
CMF C10 H10 N



RN 93179-22-7 CAPLOS
CN Quinolinium, 1-methyl-, salt with 2,2'-(2,5-cyclohexadiene-1,4-diyldiene)bis[propanedinitrile], compd. with 1-ethylquinolinium salt with [4-(dicyanomethylene)-1(4H)-pyridinyl]propanedinitrile (PC1) (CA INDEX NAME)
CN 1
CRN 93179-16-9
CMF C11 H12 N . C11 H4 N5
CN 2
CRN 84662-83-7
CMF C11 H4 N5



07/29/2008

10-589,051-1.trn

110 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CH 3
 CRI 48122-97-0
 CMF C11 R12 N



CH 4
 CRI 14972-56-7
 CMF C12 R4 R4 . C13 R12 N
 CH 5
 CRI 48122-97-0
 CMF C11 R12 N



CH 6
 CRI 34507-43-4
 CMF C12 R4 R4
 CCC R15



RI 93179-23-8 CAPLUS
 CH Pyridinium, 1-methyl-, salt with [4-(diorganomethylene)-1(4H)-

110 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CH 1
 CRI 7553-56-2
 CMF 12

2-1

CH 2
 CRI 93179-10-3
 CMF C11 R4 R5 . C7 R10 N
 CH 3
 CRI 84662-83-7
 CMF C11 R4 R5



CH 4
 CRI 15202-96-2
 CMF C7 R10 N



RI 93179-25-0 CAPLUS
 CH Quinolinium, 1-methyl-, salt with [4-(diorganomethylene)-1(4H)-
 pyridinyl]propanedinitrile, compd. with iodine (PCI) (CA INDEX NAME)
 CH 3

110 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 pyridinyl]propanedinitrile, compd. with iodine (PCI) (CA INDEX NAME)
 CH 1
 CRI 7553-56-2
 CMF 12

2-2

CH 2
 CRI 93179-09-0
 CMF C11 R4 R5 . CE R8 N
 CH 3
 CRI 84662-83-7
 CMF C11 R4 R5



CH 4
 CRI 694-56-4
 CMF CE R8 N



RI 93179-24-9 CAPLUS
 CH Pyridinium, 1-ethyl-, salt with [4-(diorganomethylene)-1(4H)-

110 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CH 1
 CRI 7553-56-2
 CMF 12

2-1

CH 2
 CRI 93179-15-8
 CMF C11 R4 R5 . C10 R10 N
 CH 3
 CRI 84662-83-7
 CMF C11 R4 R5



CH 4
 CRI 21979-19-3
 CMF C10 R10 N



RI 93179-24-1 CAPLUS
 CH Quinolinium, 1-ethyl-, salt with [4-(diorganomethylene)-1(4H)-
 pyridinyl]propanedinitrile, compd. with iodine (PCI) (CA INDEX NAME)
 CH 1
 CRI 7553-56-2
 CMF 12

L10 ANSWER 17 OF 32 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)
1-1



CM 4
CEN 48122-97-1
CMT C11 B12 3



```

IT 93179-28-3
   KL: RCT (Reactant); RACT (Reactant or reagent)
      (reaction of, with pyridinium and quinolinium compds.)
IN 93179-28-3 CAPLUS
CN  Propazolidinone, [4-(dicyanomethylene)-1(4H)-pyridinyl]-, ion(1-),
   potassium [9CI] (CA INDEX NAME)

```

110 ANSWER 18 OF 32 CARLOS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:118425 CARLOS
DOCUMENT NUMBER: 98:118425
ORIGINAL REFERENCE NO.: 98:17865a,17868a
TITLE: Preparation and properties of AraTUNQ- anion salts
and

[illegible]

The triclinic crystal, space group $P\bar{1}$, has a 10.964(2), b 12.768(2), c 8.375(1) Å, α 102.03(2), β 89.84(2), γ 112.07(2)°, and $Z = 1$, where the orientation of the ATCNO $_2$ is disordered with respect to the pyridinium ring. Least-squares refinement.

Based on 403 independent reflections with $I(\sigma) \geq 3\sigma(I)$, gave an R -value of 0.052.

IT R1: 0.071 [Synthetic preparation]; PREP (Preparation)
[preparation, crystal structure, elec. resistance and magnetic susceptibility of]

R2: R4662-97-9 CAPLUS

CR Bromodim [3], tetrakis[2-*isopropyl*-1,3-dimethylbenzoyl-], (SP-4-13)-
[2-*isopropyl*-1,3-dimethylbenzoyl]-2-(4H-pyridinyl)propanedinitrile (1:1)
[CA INDEX SUMME]

CY20 84662-83-7
CME C13 B4 B5

L10 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

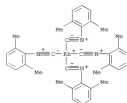


● K

110 ANSWER 18 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



ON	2
CNN	61754-49-2
OMP	C36 H36 N4 Rh
CC1	CC8



17	84662-82-SDP, solid solution with tetrakis(phenylisocyanide)rhodium TCQ 84662-82-SP 84662-83-SDP, solid solution with tetrakis(dimethylphenylisocyanide)rhodium TCQ 84662-84-SP K1: SP9 (Synthetic preparation); PEP (Preparation) [preparation, elec. resistance and magnetic susceptibility of 84662-82-S CAS#DS EN 84662-83, tetrakis(isocyanobenzene)-, [SP-4]-, salt with 14-(dimethylthiophenyl)-3-(4R)-pyridinyl]propanedinitrate [3:3] (SC1) (C
----	--

OH	1
CHN	84662-81-7
CMF	C11 H4 N5

L10 ANSWER 18 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 2

 CRI 56192-68-4
 CRI C28 R60 H4 3b
 CCI CCS

 RI 84662-81-7 CAPLOS
 CN Rhodium(III), tetrakis(2-isocyanato-1,3-dimethylbenzene)-, (SP-4-1)-, salt with [4-(diacyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

CN 2

 CRI 84662-81-7
 CRI C11 H4 H5

L10 ANSWER 18 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 2

 CRI 56192-68-4
 CRI C28 R60 H4 3b
 CCI CCS

 RI 84662-81-7 CAPLOS
 CN Rhodium(III), tetrakis(2-isocyanato-1,3-dimethylbenzene)-, (SP-4-1)-, salt with [4-(diacyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

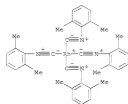
CN 2

 CRI 84662-81-7
 CRI C11 H4 H5

L10 ANSWER 18 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 2

 CRI 81794-43-2
 CRI C36 R36 H4 3b
 CCI CCS

 RI 84662-81-7 CAPLOS
 CN Rhodium(III), tetrakis(2-isocyanato-1,3,5-trimethylbenzene)-, (SP-4-1)-, salt with [4-(diacyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

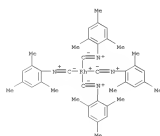
CN 2

 CRI 84662-81-7
 CRI C11 H4 H5

L10 ANSWER 18 OF 32 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)



CN 2

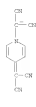
 CRI 70443-06-0
 CRI C40 R44 H4 3b
 CCI CCS

 IT 84662-81-7 CAPLOS
 RI: SPN (Synthetic preparation); PREP (Preparation)
 RI: Preparation, elec. resistance and magnetic susceptibility of, (preparation, elec. resistance and magnetic susceptibility of,)
 RI 84662-81-7 CAPLOS

CN Rhodium(III), tetrakis(2-isocyanato-1,3,5-trimethylbenzene)-, (SP-4-1)-, salt with [4-(diacyanomethylene)-1(4H)-pyridinyl]propanedinitrile (1:1) (PCI) (CA INDEX NAME)

CN 2

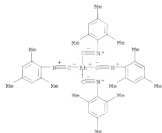
 CRI 84662-81-7
 CRI C11 H4 H5

L10 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

CM 16443-06-6
 CM C40 R14 R4 3h
 CM C15 C15



L10 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

R,N-di-allyl-N-arylamines, and C1-12 heterocyclic group. A) N atom in the ring structure. Thus, poly[6,6'-p-oxylamino]pyrene) 0.255 was mixed with a soln. contg. 1.0 g/L, CHCl₃ 10 g, combined with Isopar G 235 mL, centrifuged, to give a ppt. (contg. 18 of 7), 0.26 g of which was milled 3 h with vinyltoluene-lauryl methacrylate-L1 methacrylate-methacrylic

acid polymer 0.26, Isopar G 4.65, and imaged in an imaging app. [Carousal projector with 18 lamp, imaging electrode 12.5-20 cm, voltage -1.5 kV] to give an image with Isos and Drim 1.42 and 0.05, resp., vs. 0.54 and 0.15 for a binder-free control.

IT 65137-38-7

SL 0765 (Figs)

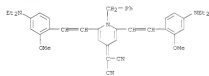
Figure 1: Electrophoretic imaging dispersion containing polymeric binder

and

PS 65137-38-7 CAPLUS

CM Prepared anisole,

[2,6-bis[2-(4-(diethylamino)-2-methoxyphenyl)ethynyl]-3-phenylmethyl]-4-(118-pyridinylidene)- (PCI) (CA INDEX NAME)



L10 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981.473460 CAPLUS

DOCUMENT NUMBER: 95.31460

ORIGINAL REFERENCE NO.: 95.5629, 5672a

TITLE:

Electrically photosensitive particles for electrophoretic migration imaging processes, dispersions of these particles and processes using such dispersions

INVENTOR(S):

Merrill, Stewart Henry; Turbison, Ernest Wayne; Shaly, Frederick Joseph; Wright, Beth George;

Wright,

Rai Elde,

Eastman Kodak Co., USA
 Eur. Pat. Appl., 68 pp.

PRIORITY:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 24119	A2	19810225	EP 1980-302106	19800407
EP 24119	A2	19811115		
US 4322487	A	19800330	US 1979-44972	19790508
CA 1143204	A1	19801022	CA 1980-357297	19800710
JP 56202159	A	19810324	JP 1980-108748	19800508
PRIORITY APPL. INFO.:			US 1979-44972	A 19790508

CI



I

AB Elec. photosensitive dispersion for electrophoretic imaging consists of a colorant and a polymeric binder comprising units containing 2,1 structure of triarylamines, p-methoxytriarylamines, 4,4'-bis(p-methoxytriarylamines), 1,1-bis(p-aminotriarylamines), 1,1-bis(p-aminotriarylamines), N-allyl-N,N-diarylamines, N-allyl-N,N-diarylamines,

L10 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979.430227 CAPLUS

DOCUMENT NUMBER: 91.20517

ORIGINAL REFERENCE NO.: 91.0884, 0886a

TITLE:

Photoelectrophoretic particles for producing color images

INVENTOR(S):

Reynolds, George Arthur
 Eastman Kodak Co., USA

SOURCE:

Ger. Offen., 74 pp.
 CODE: 080808

DOCUMENT TYPE:

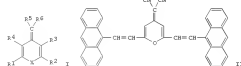
LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2831054	A1	19790118	DE 1978-2831054	19790714
DE 2831054	B2	19800107		
DE 2831054	C3	19800912		
US 4143215	A1	19790320	US 1977-816128	19770715
US 4146757	A1	19790217	US 1978-877678	19780221
CA 1110588	A1	19811020	CA 1978-205192	19780612
FR 2379749	A1	19780209	FR 1978-20745	19780712
FR 2379749	B1	19800404		
JP 54021732	A1	19790219	JP 1978-85243	19790714
DE 2803228	A1	19790221	DE 1978-20093	19790717
DE 2803228	B	19800217		
PRIORITY APPL. INFO.:			US 1977-816128	A 19770715

CI

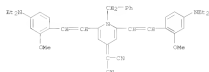


AB Elec. photosensitive particles for a photoelectrophoretic imaging device have the structure I (X is O, S, Se, or Sn, where R = halogen, CO, alkoxy, or arylalkyl substituted alkyl, aryl, dialkyl, cycloalkyl, alkenyl, or alkynyl; R₅, R₆ = CN or taken together form a C-substituted cyclo ring, other heterocyclic ring, or electron acceptor group; R₁, R₂ = alkyl, aryl, C₆H₄, C₆H₅, C₆H₁₃, C₆H₁₇, C₆H₁₉, C₆H₂₁, C₆H₂₃, C₆H₂₅, C₆H₂₇, C₆H₂₉, C₆H₃₁, C₆H₃₃, C₆H₃₅, C₆H₃₇, C₆H₃₉, C₆H₄₁, C₆H₄₃, C₆H₄₅, C₆H₄₇, C₆H₄₉, C₆H₅₁, C₆H₅₃, C₆H₅₅, C₆H₅₇, C₆H₅₉, C₆H₆₁, C₆H₆₃, C₆H₆₅, C₆H₆₇, C₆H₆₉, C₆H₇₁, C₆H₇₃, C₆H₇₅, C₆H₇₇, C₆H₇₉, C₆H₈₁, C₆H₈₃, C₆H₈₅, C₆H₈₇, C₆H₈₉, C₆H₉₁, C₆H₉₃, C₆H₉₅, C₆H₉₇, C₆H₉₉, C₆H₁₀₁, C₆H₁₀₃, C₆H₁₀₅, C₆H₁₀₇, C₆H₁₀₉, C₆H₁₁₁, C₆H₁₁₃, C₆H₁₁₅, C₆H₁₁₇, C₆H₁₁₉, C₆H₁₂₁, C₆H₁₂₃, C₆H₁₂₅, C₆H₁₂₇, C₆H₁₂₉, C₆H₁₃₁, C₆H₁₃₃, C₆H₁₃₅, C₆H₁₃₇, C₆H₁₃₉, C₆H₁₄₁, C₆H₁₄₃, C₆H₁₄₅, C₆H₁₄₇, C₆H₁₄₉, C₆H₁₅₁, C₆H₁₅₃, C₆H₁₅₅, C₆H₁₅₇, C₆H₁₅₉, C₆H₁₆₁, C₆H₁₆₃, C₆H₁₆₅, C₆H₁₆₇, C₆H₁₆₉, C₆H₁₇₁, C₆H₁₇₃, C₆H₁₇₅, C₆H₁₇₇, C₆H₁₇₉, C₆H₁₈₁, C₆H₁₈₃, C₆H₁₈₅, C₆H₁₈₇, C₆H₁₈₉, C₆H₁₉₁, C₆H₁₉₃, C₆H₁₉₅, C₆H₁₉₇, C₆H₁₉₉, C₆H₂₀₁, C₆H₂₀₃, C₆H₂₀₅, C₆H₂₀₇, C₆H₂₀₉, C₆H₂₁₁, C₆H₂₁₃, C₆H₂₁₅, C₆H₂₁₇, C₆H₂₁₉, C₆H₂₂₁, C₆H₂₂₃, C₆H₂₂₅, C₆H₂₂₇, C₆H₂₂₉, C₆H₂₃₁, C₆H₂₃₃, C₆H₂₃₅, C₆H₂₃₇, C₆H₂₃₉, C₆H₂₄₁, C₆H₂₄₃, C₆H₂₄₅, C₆H₂₄₇, C₆H₂₄₉, C₆H₂₅₁, C₆H₂₅₃, C₆H₂₅₅, C₆H₂₅₇, C₆H₂₅₉, C₆H₂₆₁, C₆H₂₆₃, C₆H₂₆₅, C₆H₂₆₇, C₆H₂₆₉, C₆H₂₇₁, C₆H₂₇₃, C₆H₂₇₅, C₆H₂₇₇, C₆H₂₇₉, C₆H₂₈₁, C₆H₂₈₃, C₆H₂₈₅, C₆H₂₈₇, C₆H₂₈₉, C₆H₂₉₁, C₆H₂₉₃, C₆H₂₉₅, C₆H₂₉₇, C₆H₂₉₉, C₆H₃₀₁, C₆H₃₀₃, C₆H₃₀₅, C₆H₃₀₇, C₆H₃₀₉, C₆H₃₁₁, C₆H₃₁₃, C₆H₃₁₅, C₆H₃₁₇, C₆H₃₁₉, C₆H₃₂₁, C₆H₃₂₃, C₆H₃₂₅, C₆H₃₂₇, C₆H₃₂₉, C₆H₃₃₁, C₆H₃₃₃, C₆H₃₃₅, C₆H₃₃₇, C₆H₃₃₉, C₆H₃₄₁, C₆H₃₄₃, C₆H₃₄₅, C₆H₃₄₇, C₆H₃₄₉, C₆H₃₅₁, C₆H₃₅₃, C₆H₃₅₅, C₆H₃₅₇, C₆H₃₅₉, C₆H₃₆₁, C₆H₃₆₃, C₆H₃₆₅, C₆H₃₆₇, C₆H₃₆₉, C₆H₃₇₁, C₆H₃₇₃, C₆H₃₇₅, C₆H₃₇₇, C₆H₃₇₉, C₆H₃₈₁, C₆H₃₈₃, C₆H₃₈₅, C₆H₃₈₇, C₆H₃₈₉, C₆H₃₉₁, C₆H₃₉₃, C₆H₃₉₅, C₆H₃₉₇, C₆H₃₉₉, C₆H₄₀₁, C₆H₄₀₃, C₆H₄₀₅, C₆H₄₀₇, C₆H₄₀₉, C₆H₄₁₁, C₆H₄₁₃, C₆H₄₁₅, C₆H₄₁₇, C₆H₄₁₉, C₆H₄₂₁, C₆H₄₂₃, C₆H₄₂₅, C₆H₄₂₇, C₆H₄₂₉, C₆H₄₃₁, C₆H₄₃₃, C₆H₄₃₅, C₆H₄₃₇, C₆H₄₃₉, C₆H₄₄₁, C₆H₄₄₃, C₆H₄₄₅, C₆H₄₄₇, C₆H₄₄₉, C₆H₄₅₁, C₆H₄₅₃, C₆H₄₅₅, C₆H₄₅₇, C₆H₄₅₉, C₆H₄₆₁, C₆H₄₆₃, C₆H₄₆₅, C₆H₄₆₇, C₆H₄₆₉, C₆H₄₇₁, C₆H₄₇₃, C₆H₄₇₅, C₆H₄₇₇, C₆H₄₇₉, C₆H₄₈₁, C₆H₄₈₃, C₆H₄₈₅, C₆H₄₈₇, C₆H₄₈₉, C₆H₄₉₁, C₆H₄₉₃, C₆H₄₉₅, C₆H₄₉₇, C₆H₄₉₉, C₆H₅₀₁, C₆H₅₀₃, C₆H₅₀₅, C₆H₅₀₇, C₆H₅₀₉, C₆H₅₁₁, C₆H₅₁₃, C₆H₅₁₅, C₆H₅₁₇, C₆H₅₁₉, C₆H₅₂₁, C₆H₅₂₃, C₆H₅₂₅, C₆H₅₂₇, C₆H₅₂₉, C₆H₅₃₁, C₆H₅₃₃, C₆H₅₃₅, C₆H₅₃₇, C₆H₅₃₉, C₆H₅₄₁, C₆H₅₄₃, C₆H₅₄₅, C₆H₅₄₇, C₆H₅₄₉, C₆H₅₅₁, C₆H₅₅₃, C₆H₅₅₅, C₆H₅₅₇, C₆H₅₅₉, C₆H₅₆₁, C₆H₅₆₃, C₆H₅₆₅, C₆H₅₆₇, C₆H₅₆₉, C₆H₅₇₁, C₆H₅₇₃, C₆H₅₇₅, C₆H₅₇₇, C₆H₅₇₉, C₆H₅₈₁, C₆H₅₈₃, C₆H₅₈₅, C₆H₅₈₇, C₆H₅₈₉, C₆H₅₉₁, C₆H₅₉₃, C₆H₅₉₅, C₆H₅₉₇, C₆H₅₉₉, C₆H₆₀₁, C₆H₆₀₃, C₆H₆₀₅, C₆H₆₀₇, C₆H₆₀₉, C₆H₆₁₁, C₆H₆₁₃, C₆H₆₁₅, C₆H₆₁₇, C₆H₆₁₉, C₆H₆₂₁, C₆H₆₂₃, C₆H₆₂₅, C₆H₆₂₇, C₆H₆₂₉, C₆H₆₃₁, C₆H₆₃₃, C₆H₆₃₅, C₆H₆₃₇, C₆H₆₃₉, C₆H₆₄₁, C₆H₆₄₃, C₆H₆₄₅, C₆H₆₄₇, C₆H₆₄₉, C₆H₆₅₁, C₆H₆₅₃, C₆H₆₅₅, C₆H₆₅₇, C₆H₆₅₉, C₆H₆₆₁, C₆H₆₆₃, C₆H₆₆₅, C₆H₆₆₇, C₆H₆₆₉, C₆H₆₇₁, C₆H₆₇₃, C₆H₆₇₅, C₆H₆₇₇, C₆H₆₇₉, C₆H₆₈₁, C₆H₆₈₃, C₆H₆₈₅, C₆H₆₈₇, C₆H₆₈₉, C₆H₆₉₁, C₆H₆₉₃, C₆H₆₉₅, C₆H₆₉₇, C₆H₆₉₉, C₆H₇₀₁, C₆H₇₀₃, C₆H₇₀₅, C₆H₇₀₇, C₆H₇₀₉, C₆H₇₁₁, C₆H₇₁₃, C₆H₇₁₅, C₆H₇₁₇, C₆H₇₁₉, C₆H₇₂₁, C₆H₇₂₃, C₆H₇₂₅, C₆H₇₂₇, C₆H₇₂₉, C₆H₇₃₁, C₆H₇₃₃, C₆H₇₃₅, C₆H₇₃₇, C₆H₇₃₉, C₆H₇₄₁, C₆H₇₄₃, C₆H₇₄₅, C₆H₇₄₇, C₆H₇₄₉, C₆H₇₅₁, C₆H₇₅₃, C₆H₇₅₅, C₆H₇₅₇, C₆H₇₅₉, C₆H₇₆₁, C₆H₇₆₃, C₆H₇₆₅, C₆H₇₆₇, C₆H₇₆₉, C₆H₇₇₁, C₆H₇₇₃, C₆H₇₇₅, C₆H₇₇₇, C₆H₇₇₉, C₆H₇₈₁, C₆H₇₈₃, C₆H₇₈₅, C₆H₇₈₇, C₆H₇₈₉, C₆H₇₉₁, C₆H₇₉₃, C₆H₇₉₅, C₆H₇₉₇, C₆H₇₉₉, C₆H₈₀₁, C₆H₈₀₃, C₆H₈₀₅, C₆H₈₀₇, C₆H₈₀₉, C₆H₈₁₁, C₆H₈₁₃, C₆H₈₁₅, C₆H₈₁₇, C₆H₈₁₉, C₆H₈₂₁, C₆H₈₂₃, C₆H₈₂₅, C₆H₈₂₇, C₆H₈₂₉, C₆H₈₃₁, C₆H₈₃₃, C₆H₈₃₅, C₆H₈₃₇, C₆H₈₃₉, C₆H₈₄₁, C₆H₈₄₃, C₆H₈₄₅, C₆H₈₄₇, C₆H₈₄₉, C₆H₈₅₁, C₆H₈₅₃, C₆H₈₅₅, C₆H₈₅₇, C₆H₈₅₉, C₆H₈₆₁, C₆H₈₆₃, C₆H₈₆₅, C₆H₈₆₇, C₆H₈₆₉, C₆H₈₇₁, C₆H₈₇₃, C₆H₈₇₅, C₆H₈₇₇, C₆H₈₇₉, C₆H₈₈₁, C₆H₈₈₃, C₆H₈₈₅, C₆H₈₈₇, C₆H₈₈₉, C₆H₈₉₁, C₆H₈₉₃, C₆H₈₉₅, C₆H₈₉₇, C₆H₈₉₉, C₆H₉₀₁, C₆H₉₀₃, C₆H₉₀₅, C₆H₉₀₇, C₆H₉₀₉, C₆H₉₁₁, C₆H₉₁₃, C₆H₉₁₅, C₆H₉₁₇, C₆H₉₁₉, C₆H₉₂₁, C₆H₉₂₃, C₆H₉₂₅, C₆H₉₂₇, C₆H₉₂₉, C₆H₉₃₁, C₆H₉₃₃, C₆H₉₃₅, C₆H₉₃₇, C₆H₉₃₉, C₆H₉₄₁, C₆H₉₄₃, C₆H

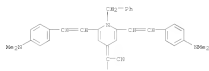
L10 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 a 5- or 6-membered carbocyclic ring; R4 is H or the same as R1, R1, or L1, or L4 in a 5- or 6-membered carbocyclic ring). Thus, an excellent red-brown image was produced by a known electrophoretic imaging method with the use of a dispersion contg. II

IT 65833-38-7 65833-47-8 65833-48-9
 70503-51-4
 RI: US25 (Case)
 (electrophoretic color imaging composition containing elec.

photosensitive particles of)
 RI 65833-38-7 CAPLUS
 CH Propanedinitrile,
 [2,6-bis[2-[4-(dimethylamino)-2-methoxyphenyl]ethenyl]-1-
 (phenylmethyl)-4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)



RI 65833-47-8 CAPLUS
 CH Propanedinitrile, [2,6-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1-
 (phenylmethyl)-4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)

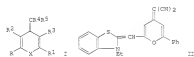


RI 65833-48-9 CAPLUS
 CH Propanedinitrile, [1-butyl-2,6-bis[2-[4-(dimethylamino)phenyl]ethenyl]-
 4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)

L10 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 ACCESSION NUMBER: 1978:12897 CAPLUS
 DOCUMENT NUMBER: 88:12897
 ORIGINAL REFERENCE NO.: 88:20171a,20171a
 TITLE: Migration imaging process
 AUTHOR(S): Van Allen, James Albert; Webster, Frank Glenn
 REYNOLDS, George Arthur
 CORPORATE SOURCE: US
 SOURCE: Research Disclosure (1977), 162, 24-31 (No. 16247)
 CODE:R: P25838, ISSN: 0374-4353
 DOCUMENT TYPE: Journal, Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
 RD 342447 19771030 RD 1977-162047 19771010
 PRIORITY APPL. INFO.: RD 1977-162047 19771010

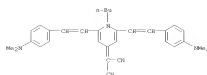
GI



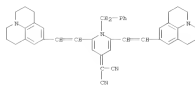
AB Forty electrophoretically sensitive pigments of the structure I (R, R1 are heterocyclic nuclei linked through a system of conjugated double bonds, R2, R3 are H or together with R and R1, resp. form a carbocyclic ring; R4, R5 are electron-withdrawing groups or together form an acidic heterocyclic as in heterocyclic group) and R1 is O, S, or NH where R6 is alkyl, aryl, aralkyl, or the like) are described for use in electrophoretic migration imaging. Thus, to 1g of an imaging dispersion containing 1mg of 2,2,2,2-tetrafluoroethyl acrylate-vinyltoluene polymer 0.1g was added II 0.45 g and the dispersion then filled with stainless steel balls for 3 h. Upon testing this dispersion in a migration imaging process, a rep. of an original was obtained on 1 electrode and a complementary image on the other electrode.

IT 65833-38-7 65833-47-8 65833-48-9
 RI: US25 (Case)
 (electrophoretic color imaging composition containing elec.
 photosensitive pigment, for migration imaging process)
 RI 65833-38-7 CAPLUS
 CH Propanedinitrile,
 [2,6-bis[2-[4-(dimethylamino)-2-methoxyphenyl]ethenyl]-1-
 (phenylmethyl)-4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)

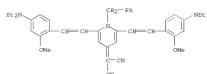
L10 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



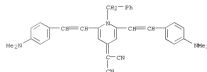
RI 70503-51-4 CAPLUS
 CH Propanedinitrile, [1-(phenylmethyl)-2,6-bis[2-[4-(dimethylamino)-2-methoxyphenyl]ethenyl]-4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)



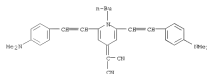
L10 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RI 65833-47-8 CAPLUS
 CH Propanedinitrile, [2,6-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1-
 (phenylmethyl)-4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)



RI 65833-48-9 CAPLUS
 CH Propanedinitrile, [1-butyl-2,6-bis[2-[4-(dimethylamino)phenyl]ethenyl]-
 4(1H-pyridinylidene)- (9CI) (CA INDEX NAME)



L10 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 82110772
 DOCUMENT NUMBER: 82127389,27392a
 ORIGINAL REFERENCE NO.:
 TITLE: Metacycloles by cycloaddition. I. Cycloaddition-metacycloles ring expansion reactions of five-membered mesoionic compounds with diphenylcyclopropenone and related compounds. Preparation of six-membered metacycloles
 AUTHOR(S): Matsuda, Shiroshi; Hato, Hiroshi
 CORPORATE SOURCE: Dep. Chem., Shikoku Univ., Matsuyama, Japan
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1970-1999) (1975), (7), 632-5
 CODEN: JCOCMH; ISSN: 0360-932X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI: For diagram(s), see printed CA issue.
 AB: Metacycloles with AcO cyclized to the mesoionic oxazolone I which with the cyclopentadienylidene deriva. II [R = O, S, NBOCDSMME-pv, C(CR)2, C(CR)2CR] gave 41-48 of the corresponding pyridine deriva. III. The thiazolones IV with II also gave III. The mesoionic dithiolone V with II [R = C(CR)2CR] gave the expected thioether derivative VI and the indenothiopyran VII.
 IT 54133-10-79 CAPLUS
 RU: SYN (Synthetic preparation); PREP (Preparation)
 CH Prepared nitrile, (1-methyl-2,3,5,6-tetraphenyl-4(1H)-pyridinylidene)- (9C1) (CA INDEX NAME)



RU 54137-07-8 CAPLUS
 CH Prepared nitrile, (1-methyl-2-(4-nitrophenyl)-3,5,6-triphenyl-4(1H)-pyridinylidene)- (9C1) (CA INDEX NAME)

L10 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1975154217 CAPLUS
 DOCUMENT NUMBER: 82156017
 ORIGINAL REFERENCE NO.: 8214889a,24892a
 TITLE: Reactions of trialkenes with azomethine ylides
 AUTHOR(S): Kluwer, Th.; Scheifer, V.
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Wurzburg, Wurzburg, Fed. Rep. Ger.
 SOURCE: Tetrahedron (1974), 30(22), 4025-9
 CODEN: TETRAA; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI: For diagram(s), see printed CA issue.
 AB: The reaction of the azomethine ylides I [R = Me, Ph, R1 = Me, R2 = Ph; R = R2 = Me, R1 = Ph], prepared by heating NBOCDSMME-pv with cyclopropenone II (R3 = R4 = Ph, X = O, S, R3 = Me, R4 = Me, X = O) and of I [R = R2 = Ph, R1 = Me] with methylcyclopropenone III (R5 = R6 = CH3, CO2R, R7 = CH3, R8 = CO2R, CO2Me) gave 4-pyridones IV and 3,4-dihydro-2-methyl-4-methylpyridines V, resp. by (3 + 3) cycloaddn. The metacycloles systems V exhibited solvatochromic and thermochromic properties.
 IT 54133-10-79
 RU: SYN (Synthetic preparation); PREP (Preparation)
 CH Prepared nitrile, (1-methyl-2,3,5,6-tetraphenyl-4(1H)-pyridinylidene)- (9C1) (CA INDEX NAME)



L10 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L10 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1974104800 CAPLUS
 DOCUMENT NUMBER: 81124890
 ORIGINAL REFERENCE NO.: 8116563a,16564a
 TITLE: Cycloaddition reactions of cyclic and acyclic 1,3-dipoles with diphenylcyclopropenone and related compounds. A new rearrangement
 AUTHOR(S): Matsuda, Shiroshi; Hato, Hiroshi
 CORPORATE SOURCE: Dep. Chem., Shikoku Univ., Matsuyama, Japan
 SOURCE: Communications (1974), (18), 412-13
 CODEN: JCCOCT; ISSN: 0022-4778
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI: For diagram(s), see printed CA issue.
 AB: Cycloaddn. of diphenylcyclopropenone, e.g. 1, to mesoionic comp., e.g. 11, occurred across the C=C double bond to give 31-638 1,4-dihydro-2-triphenylpyridine and tetraphenylthiopyran deriva. e.g. 121. Cycloaddn. of PhCNO with I occurred across the C=C double bond to give, by rearrangement, 408 triphenyl-1,3-oxazin-6-one.
 IT 54133-10-79
 RU: SYN (Synthetic preparation); PREP (Preparation)
 CH Prepared nitrile, (1-methyl-2,3,5,6-tetraphenyl-4(1H)-pyridinylidene)- (9C1) (CA INDEX NAME)



L10 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1974:132203 CAPLUS
 DOCUMENT NUMBER: 80132203
 ORIGINAL REFERENCE NO.: 80121479, 21480a
 TITLE: Synthesis and properties of heteroculvenes. Derivatives of 2,6-dimethyl-4-pyrron, γ -thiopyrron, and N-butyl-2,6-dimethyl- γ -pyridone
 AUTHOR(S): Belaky, J.; Dodiak, R.; Shvo, Y.
 CORPORATE SOURCE: Dep. Chem., Tel-Aviv Univ., Tel-Aviv, Israel
 SOURCE: Journal of Organic Chemistry (1974), 39(7), 989-95
 CODEN: JOCHAA; ISSN: 0022-1363
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB C, S, and N-substituted heteroculvenes, deriva. of 2,6-dimethyl- γ -pyrron (2), γ -thiopyrron (3), and N-butyl-2,6-dimethyl- γ -pyridone were prepared. The 2 and 3, resp., with active methylene compds. in AcOH. The N heteroculvenes were obtained from the O heteroculvenes by reaction with H₂SO₄.
 Note: Side reactions were observed when H₂SO₄ reacted with methyl 1,1-dimethyl-4 γ -pyrron-4-ylidenemalonate and 2,6-dimethyl-4 γ -pyrron-4-ylidenemalonate. A new convenient route to heteroculvenes which bear a single substituent at the acrotylic double bond was developed. Thus, heteroculvenes substituted by an acetyl group at the acrotylic double bond were found to undergo acetyl cleavage, under very mild acidic conditions, resulting in the formation of monosubstituted heteroculvenes. Deuterium exchange reactions in the systems under consideration were studied. The IR, UV, and ¹H data of the disubstituted and monosubstituted heteroculvenes are discussed in terms of the heteroben and the substituents at the acrotylic double bond.
 IT 43101-35-35
 RI, SYN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RI 43101-35-35 CAPLUS
 CH Preparedanitrile, (1-butyl-2,6-dimethyl-4(1H)-pyridinylidene)- (BC1) (CA INDEX NAME)



L10 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1970:132203 CAPLUS
 DOCUMENT NUMBER: 79132203
 ORIGINAL REFERENCE NO.: 7915841a, 5844a
 TITLE: Reactions of some 4-methylene-8-pyran derivatives with primary and secondary amines
 AUTHOR(S): Van Allen, James A.; Reynolds, George Arthur; Petroponlos, C. C.; Maser, D. P.
 CORPORATE SOURCE: Res. Lab., Eastman Kodak Co., Rochester, NY, USA
 SOURCE: Journal of Heterocyclic Chemistry (1970), 7(3), 493-507
 CODEN: JHETAB; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 79132203
 AB 4-methylene-8-pyran derivatives react with secondary amines to give 2-amino-8-pyran and 2-pyridone deriva., which, in turn, were used to prepare copolymer derivatives. These pyrans and pyridine amines gave copolymer and imino-8-pyran derivatives in addition to 4-methylene-8-pyran-1,4-dithiopyridines. Reaction of 2-methyl-8-pyran-4-methylene-8-pyran with secondary amines gave 2-pyranones, and with primary amines, gave copolymers and 1,4-dithiopyridine deriva.
 IT 2737-83-39 2737-80-39 2738-13-40
 RI, SYN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RI 2737-83-39 CAPLUS
 CH 4(1H)- α -Pyridinemalonitrile, 1-methyl-2,6-diphenyl- (BC1) (CA INDEX NAME)



RI 2737-90-2 CAPLUS
 CH 4(1H)- α -Pyridinemalonitrile, 1-butyl-2,6-diphenyl- (BC1) (CA INDEX NAME)



L10 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1971:463550 CAPLUS
 DOCUMENT NUMBER: 7513550
 ORIGINAL REFERENCE NO.: 7510087a, 10070a
 TITLE: Reactions of 4-dicyanomethylene-8-pyrans with hindered primary amines
 AUTHOR(S): Vassiliou, Z. A.; Reynolds, G. A.
 CORPORATE SOURCE: Res. Lab., Eastman Kodak Co., Rochester, NY, USA
 SOURCE: Journal of Heterocyclic Chemistry (1971), 8(5), 567-71
 CODEN: JHETAB; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Reaction of 2,6-dimethyl- and 2,6-diphenyl-4-dicyanomethylene-8-pyran with hindered primary amines such as isopropylamine and cyclohexylamine gave 1-alkyl-2-amino-3-cyano-6-methyl (or phenyl)-4-antopyridine (or phenacylidene)-1,4-dihydropyridine deriva. 6-Methyl-4-antopyridine samples underwent a facile thermal rearrangement to give 1-alkyl-2,6-dimethyl-4-dicyanomethylene-1,4-dihydropyridines. Several reactions of the acylidene deriva. are described.
 IT 32883-35-39
 RI, SYN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RI 32883-35-39 CAPLUS
 CH 4(1H)- α -Pyridinemalonitrile, 1-isopropyl-2,6-dimethyl- (BC1) (CA INDEX NAME)



L10 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 RI 27368-13-4 CAPLUS
 CH 4(1H)- α -Pyridinemalonitrile, 1-benzyl-2,6-diphenyl- (BC1) (CA INDEX NAME)



L10 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 196114161 CAPLUS
 DOCUMENT NUMBER: 55124461
 ORIGINAL REFERENCE NO.: 551279218-0
 TITLE: Non-heterocyclic aromatic heterocycles. III. Conversion of 4-pyrone derivatives into 4-pyridone derivatives
 AUTHOR(S): Kato, Hiroshi; Ogawa, Takatoshi; Ohta, Masaki
 COMPANY SOURCE: Tokyo Inst. Technol.
 SOURCE: Bulletin of the Chemical Society of Japan (1960), 33, 1485-9
 CORDS: BCSTAN; ISSN: 0009-2373
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB: 4-Pyrone reacted with aniline to give 4-pyridones. 6-(Diacyanomethyl)-4,4-dimethyl-4H-pyran (I) (5.1 g.) and 4-pyrone refluxed 1 hr. and the mixture washed with dilute HCl gave 20%
 N-phenyl-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 242-5° (lit.) and with NEt₃·HCl at 100° gave 42% N-anilino-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 250-1° (decomposition) (lit.). 4-(Diacyanomethyl)-2,6-dimethyl-1,4-dihydropyran with NEt₃ gave N-benzyl-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 193-4° (lit.) and with NEt₃·HCl gave
 N-anilino-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 217-18° (lit.), but did not react with NEt₃ or NEt₃·HCl.
 N-benzyl-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine (5.6 g.) and 0.4 g. Et₃N refluxed 1 hr. gave 0.6 g. (crude) N-benzylamino-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 294-5° (lit.). 2 (5 g.) in 5 cc. NEt₃ refluxed 1 hr. at 110° gave 1.7 g. 4-(diacyanomethyl)-2,6-dimethyl-2,4-dihydropyridine, m. 370-3° (lit.).
 IT 107151-55-59, 64(18), α-Pyridinammoniole, 1-benzyl-2,6-dimethyl- (6C1)
 (ICL INDEX NAME)
 1-benzyl-2,6-dimethyl-
 RI: PREP (Preparation)
 RI: Preparation of
 RI: 107151-55-8 CAPLUS
 RI: 64(18), α-Pyridinammoniole, 1-benzyl-2,6-dimethyl- (6C1)
 (ICL INDEX NAME)



L10 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 196118171 CAPLUS
 DOCUMENT NUMBER: 55182717
 ORIGINAL REFERENCE NO.: 551149126
 TITLE: Conversion of 4-pyrone derivatives into 4-pyridone derivatives
 AUTHOR(S): Kato, Hiroshi; Ogawa, Takatoshi; Ohta, Masaki
 COMPANY SOURCE: Tokyo Inst. Technol., Japan
 SOURCE: Chemistry & Industry (London, United Kingdom) (1960) 1300
 CORDS: CINDUS; ISSN: 0009-3068
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB: For diagram(s), see printed CA Jchem. 118 (1960) 1300
 AS: O=C#N=C(C(=O)CH2CH2)C(=O)N (I) (R = CH3) (IIa) with PhNH2 gave 20% N-phenyl-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 242-5° (lit.) and with NEt₃·HCl at 100° gave 42% N-anilino-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 250-1° (lit.). 4-(Diacyanomethyl)-2,6-dimethyl-1,4-dihydropyran with NEt₃ gave N-benzyl-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 193-4° (lit.) and with NEt₃·HCl gave N-anilino-4-(diacyanomethyl)-2,6-dimethyl-1,4-dihydropyridine, m. 217-18° (lit.).
 IT 107151-55-59, 64(18), α-Pyridinammoniole, 1-benzyl-2,6-dimethyl- (6C1)
 (ICL INDEX NAME)
 1-benzyl-2,6-dimethyl-
 RI: PREP (Preparation)
 RI: Preparation of
 RI: 107151-55-8 CAPLUS
 RI: 64(18), α-Pyridinammoniole, 1-benzyl-2,6-dimethyl- (6C1)
 (ICL INDEX NAME)

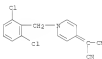


L10 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L10 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 195743354 CAPLUS
 DOCUMENT NUMBER: 5143354
 ORIGINAL REFERENCE NO.: 5140996-1, 90996-1, 90996-1
 TITLE: Pseudo bases. I. Additions of methyl and methylene ketones to pyridinium salts
 AUTHOR(S): Kricheldorf, Fritz; Illgen, Konrad; Bettram, David
 COMPANY SOURCE: Forschungslab. Dr. A. Wender, A.-G., Beckingen/Baden, Germany
 SOURCE: Justus Liebig's Annalen der Chemie (1956), 600, 176-98
 CORDS: JACW; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB: For diagram(s), see printed CA Jchem. 118 (1960) 1300
 AS: Pyridinium, quinolinium, and isopropylidene bases form addition compounds with simple Me ketones and with certain methylene ketones. The adducts are easily retrograded by acids, and can be dehydrated to form bases that yield stable salts. The adducts are considered to be "salts" in which the organic cation and anion are stabilized with regard to resonance, and which are related to bases (termed mesomeric cations) which are considered intermediate between ammonium acid carbonyl bases. The possibility of existence of pseudo bases (i.e., carbonyl bases) increases with decreasing aromaticity of the heterocycle. With hyperaromatic heterocycles like pyridine, such bases could not be isolated. In the case of quinoline and isoquinoline derivs., in certain instances such bases could be prepared, but the formation of mesomeric cations was favored. In the acridine series, and with heterocycles containing O, carbonyl bases are favored over ammonium or mesomeric cations; this also occurs in the PHOS series.
 Hydrogenation of heterocycles greatly increases the stability of the carbonyl bases, which are easily isolated. 2,6-DICHLOROPYRONE (322 g.) in 400 cc. CCl₄, stirred and irradiated was treated dropwise with 200.2 cc. Br in 30 cc. CCl₄ giving 422 g. 2,6-DICHLOROPYRONE (I), m. 55°; details of purification are given. I is a powerful lactonizer. I with a slight excess of pyridine (cf. C.A. 47, 1704f), heated in MeCO₂ gave, in excellent yield, N-(2,6-dichloropyridin-2-yl)pyridanone (13) m. 216-17°; this in MeOH with p-CH₃O₂C₆H₄Me (13a) gave 55% 2,6-DICHLOROPYRONE (I) (13), yellow prismatic plates, m. 152-3°. When 194 pyridine or isopropyl was added to the MeOH, 75% and 11% lit. resp., were obtained. Formed similarly from I and appropriately substituted pyridines were the following derivs. of 1: 92% 3-Me, m. 97° (lit. 90-82°); 89% 3-CH₃CO, m. 111-12°; 97% 3-CH₃CO (13a), m. 248-9°, 95% 3-Me, m. 137°; 90% 3-CH₃, m. 187-8°; and 96% 3-NO₂, m. 231°. 11 (1.92 g.) in 15 cc. MeCO₂ and 5 cc. H₂O at 100° with 5 cc. 2N MeOH gave 1.69 g. MeCO₂ adduct, C₁₀H₈Cl₂O₂ (IV), colorless rhombs, m. 94-5° (when cooled to 0°) not recrystallizable, forming a brown resin on standing. Similarly formed were the following adducts of 1: analogs of IV, 58% Rhomb (17a), pale yellow plates, m. 80-3°; 70% rhombolammonium, yellowish leaflets, m. 83-4°; 66% deoxybenzoin, yellow, m. 87-8° and 79% monoamide of the 5-CH₃CO derivative of IV, m. 118-9° (decomposition). In the following dehydro oxygen: 81°

ANAL. 3.5% and 4.0% COPIES/CM² 2000 MCS on 2018 (Continued)

fluorescence and coupled to GC/MS giving 0.32 g. of 1,4-bis-(4-chlorobenzyl)-4-(4-chlorobenzyl)-2,3,5-trimethyl-5-phenyl-1H-pyridine-6-carboxylic acid (14-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-103



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